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TITLE: Image processing apparatus
and method, and recording
medium

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INVENTOR-INFORMATION:

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US-CL-CURRENT: 382/167, 358/518

ABSTRACT:

The present invention provides an image processing method for obtaining a conversion parameter to be used for a signal conversion process between body color image data and light source color image data,

said method comprising the steps of calculating a conversion parameter to match color sight between a body color and a light source color with each other, for each of a plurality of representative colors and calculating the conversion parameter to be used for the signal conversion process, on the basis of the plurality of conversion parameters for each of the plurality of representative colors, whereby a conversion coefficient applicable to an entire image can be obtained, and the signal conversion process between the body color and the light source color can be performed well without being affected by any characteristic of device.

15 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

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Detailed Description Text - DETX (27):

In a conversion unit 2 (303), the X.sub.2 Y.sub.2 Z.sub.2 light source color image data is converted into the R.sub.2 G.sub.2 B.sub.2 light source color image data dependent on the monitor, on the basis of a monitor profile 306. That is, the conversion process based on the monitor characteristic of the monitor 30 is performed by the conversion unit 2, so that the X.sub.2 Y.sub.2 Z.sub.2 light source color image data can be faithfully reproduced on the

monitor 30. The monitor profile 306 stores the monitor characteristics, e.g., a gamma characteristic, a color conversion matrix (XYZ.fwdarw.monitor-dependent RGB) based on a hue of fluorescent body, a hue of white point, a color temperature and the like, an LUT and the like.